

APPENDIX H

GENERATING STATION CONSTRUCTION ACTIVITY AIR DISPERSION MODELING INFORMATION

- **Air Dispersion Modeling Results Summary**
- **Construction Emission Estimates**
- **Source Parameters**
- **Modeling Grid Summary**
- **Summary of Air Dispersion Calculations**
- **Windrose Information**
- **Modeling Log**
- **Select ISCST3 Print-Outs**

Construction Air Dispersion Modeling Results Summary
Riverside Energy Resource Center

Description	Time Period	Concentrations ($\mu\text{g}/\text{m}^3$)		Receptor UTM Coordinates
		UTM E	UTM N	
Run#: RIVERSIDECEC04				
- Construction Emissions - Combustion and Fugitive PM Sources - Area and Volume Sources - 24-Hour and Annual - Actual Emission Rates	24-Hour	16.97202	UTM E UTM N	458313.91 3758175.75
	Annual	2.33196	UTM E UTM N	458360.0 3758115.8
Run#: RIVERSIDECEC05				
- Construction Emissions - Combustion NOx Sources - Volume Sources - 1-Hour and Annual - Actual Emission Rates	1-Hour	1019.81396	UTM E UTM N	458283.91 3758175.75
	Annual	16.70348	UTM E UTM N	458360.0 3758145.75
Run#: RIVERSIDECEC06				
- Construction Emissions - Combustion CO Sources - Volume Sources - 1-Hour and 8-Hour - Actual Emission Rates	1-Hour	513.28412	UTM E UTM N	458283.19 3758175.75
	8-Hour	128.96968	UTM E UTM N	458343.91 3758175.75
Run#: RIVERSIDECEC07				
- Construction Emissions - Combustion SOx Sources - Volume Sources - 1-Hour, 3-Hour, and 24-Hour - Actual Emission Rates	1-Hour	1.01307	UTM E UTM N	458283.91 3758175.75
	3-Hour	0.67432	UTM E UTM N	458283.91 3758175.75
	24-Hour	0.1115	UTM E UTM N	458360.0 3758115.75

Air Dispersion Modeling Construction Emission Estimates
Riverside Energy Resource Center

PM10 Lb/hr - Daily High

Area 1	Volume 1	Volume 2	Volume 3	Volume 4	Volume 5	Volume 6	Volume 7	Volume 8	Total
	0.1216	0.1946	0.0973	0.0730	0.0000	0.0000	0.0000	0.0000	0.4864
					0.0467	0.0654	0.0374	0.0374	0.1869
					0.2485	0.4971	0.2485	0.2485	1.2427
					0.0905	0.0452	0.0452	0.0452	0.2262
	0.0036								0.0036
Total (lbs/hr):	0.0036	0.1216	0.1946	0.0973	0.0730	0.3858	0.6078	0.3312	0.3312
Total (g/s):	0.0005	0.0153	0.0245	0.0123	0.0092	0.0486	0.0766	0.0417	0.0417
Total (g/s-m ²)	8.73E-09	-	-	-	-	6.60E-06	1.53E-05	1.99E-05	1.99E-05

PM10 Lb/hr - Annual Average

Area 5	Volume 1	Volume 2	Volume 3	Volume 4	Area 1	Area 2	Area 3	Area 4	Total
	0.0122	0.0194	0.0097	0.0073	0.0000	0.0000	0.0000	0.0000	0.0486
					0.0052	0.0072	0.0041	0.0041	0.0207
					0.0090	0.0180	0.0090	0.0090	0.0451
					0.0037	0.0019	0.0019	0.0019	0.0093
	0.0016								0.0016
Total (lbs/hr):	0.0016	0.0122	0.0194	0.0097	0.0073	0.0179	0.0271	0.0150	0.0150
Total (g/s):	0.0002	0.0015	0.0024	0.0012	0.0009	0.0023	0.0034	0.0019	0.0019
Total (g/s-m ²)	3.83E-09	-	-	-	-	3.07E-07	6.81E-07	9.02E-07	9.02E-07

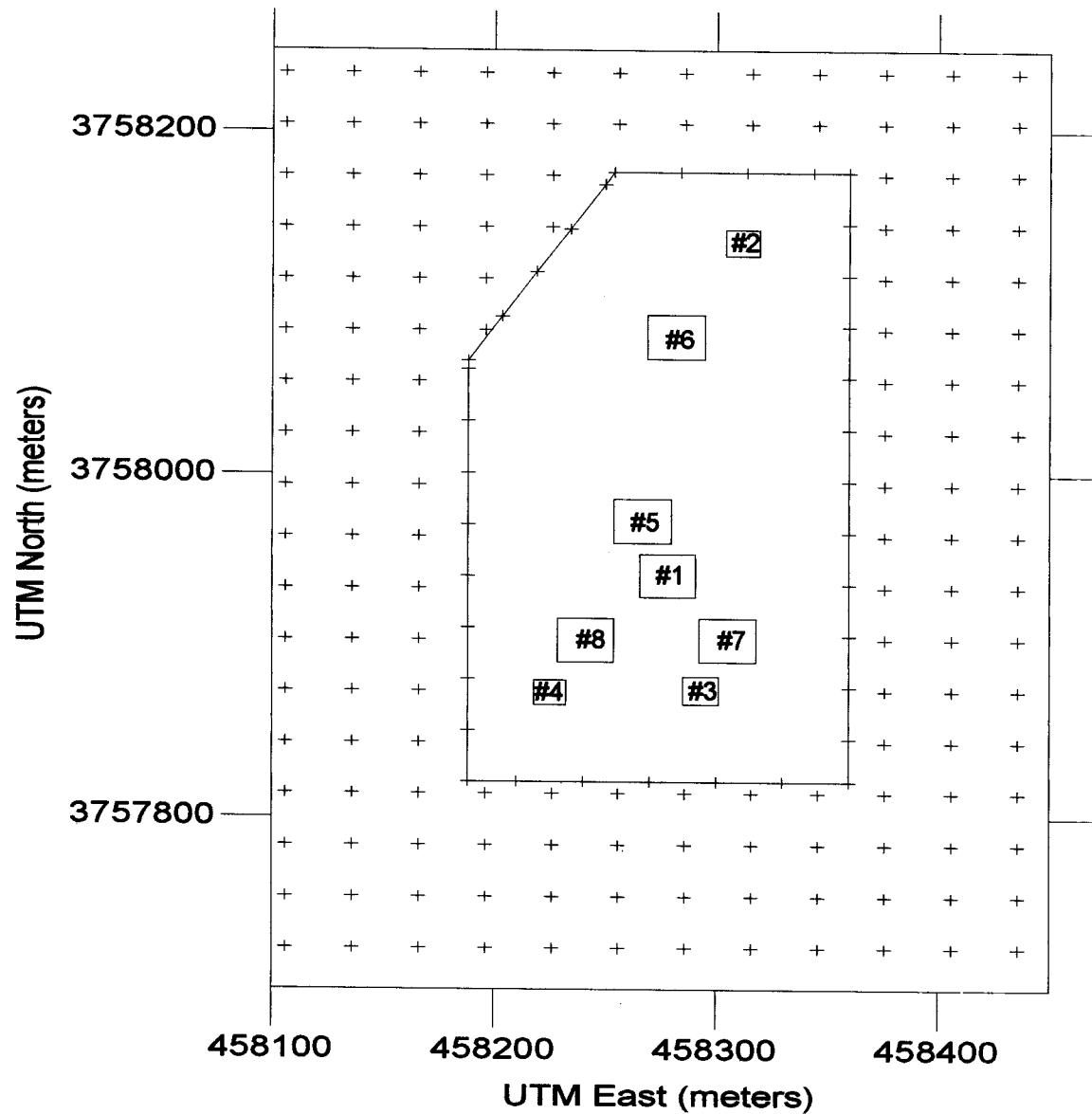
Criteria Pollutants (lbs/hr)

	Emissions Total (lbs/day)	Emissions Total (lbs/day)	Volume 1	Volume 2	Volume 3	Volume 4	Total
	%		25.0	40.0	20.0	15.0	
NOx	60.30	7.54	1.88	3.02	1.51	1.13	7.54
CO	30.49	3.81	0.95	1.52	0.76	0.57	3.81
VOC	5.60	0.70	0.18	0.28	0.14	0.11	0.70
SOx	0.06	0.008	0.002	0.003	0.002	0.001	0.01

Volume & Area Source Modeling Descriptions
Riverside Energy Resource Center

Emission Source	Source ID#	Release Height	Initial Lateral Dimension	Initial Vertical Dimension	Elevation
Volume Source #1 Combustion Emissions from Construction Activities	SRC01	6 m	25.1 m	2.8 m	725'
Volume Source #2 Combustion Emissions from Construction Activities	SRC02	6 m	15.3 m	2.8 m	725'
Volume Source #3 Combustion Emissions from Construction Activities	SRC03	6 m	16.2 m	2.8 m	725'
Volume Source #4 Combustion Emissions from Construction Activities	SRC04	6 m	14.5 m	2.8 m	725'
Volume Source #5 Fugitive Dust from Construction Activities	SRC05	2 m	26 m	1.9 m	725'
Volume Source #6 Fugitive Dust from Construction Activities	SRC06	2 m	15.3 m	0.93 m	725'
Volume Source #7 Fugitive Dust from Construction Activities	SRC07	2 m	16.2 m	0.93 m	725'
Volume Source #8 Fugitive Dust from Construction Activities	SRC08	2 m	14.5 m	0.93 m	725'
Area Source #1 Fugitive Dust from Wind Entrainment - Entire Site Site Area: 52,325.8 m ²	SRC09	0.5 m	n/a	0.0 m	725'

CEC Modeling (Construction Emissions)
Volume Source Locations
Riverside Energy Resource Center



Volume Source #1: Construction Combustion Emissions

Volume Source #2: Construction Combustion Emissions

Volume Source #3: Construction Combustion Emissions

Volume Source #4: Construction Combustion Emissions

Volume Source #5: Construction Fugitive PM Emissions

Volume Source #6: Construction Fugitive PM Emissions

Volume Source #7: Construction Fugitive PM Emissions

Volume Source #8: Construction Fugitive PM Emissions

Modeling Grids
Riverside Energy Resource Center

	Km Out	Spacing	UTME	UTMN
Grid #1	0-2	30 meter	457296	3756943.6
Grid #2	2-5	100 meter	455796	3756943.6
Grid #3	5-10	200 meter	453296	3752943.6

Summary of Air Dispersion Calculations

The basic air dispersion equation used in the model assumes that the concentrations of emissions within a plume can be characterized by a Gaussian distribution as it correlate to the centerline of the plume. Concentrations at any location downwind of a point source such as a stack can be determined from the following equation:

$$C(x,y,z,H) = \left(\frac{Q}{2\pi\sigma_y\sigma_z u} \right) * \left(e^{-1/2(y/\sigma_y)^2} \right) * \left[\left(e^{-1/2(z-H/\sigma_z)^2} \right) + \left(e^{-1/2(z+H/\sigma_z)^2} \right) \right]$$

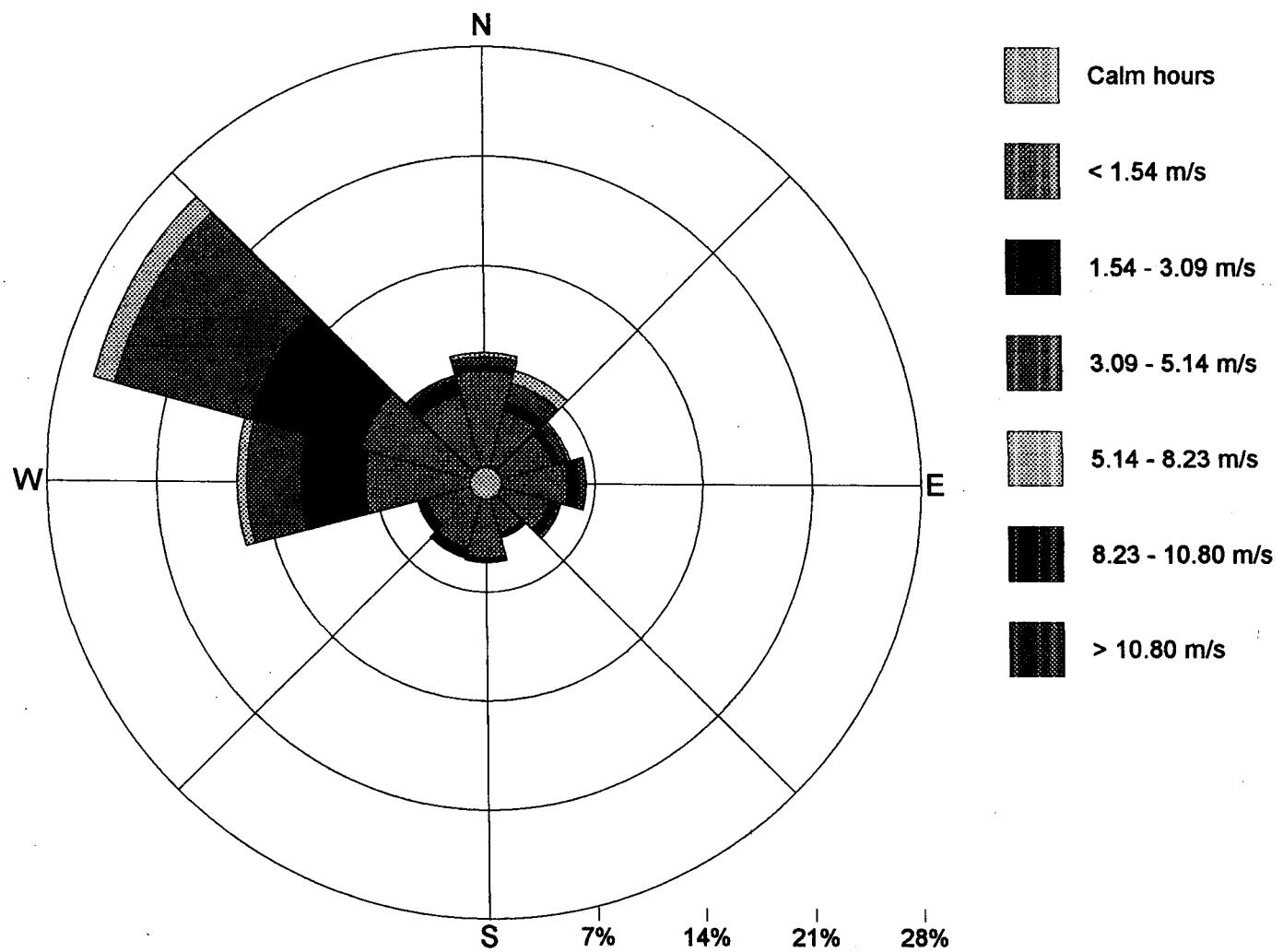
Where:

- C = The concentration of the subject pollutant in the air.
- Q = The pollutant emission rate.
- $\sigma_y\sigma_z$ = The horizontal and vertical dispersion coefficients, respectively, at downwind distance x.
- u = The wind speed at the height of the plume centerline.
- x,y,z = The variables define the 3-deminsional Cartesian coordinate system used in the model for receptor grid points; downwind, crosswind, and vertical distances from the base of the stack.
- H = The height of the plume above the stack base (the sum of the height of the stack and the vertical distance that the plume rises due to the momentum and/or buoyancy of the plume).

The Gaussian dispersion model, which are approved by the USEPA, are based on conservative assumptions (i.e., the model tends to over predict actual impacts by assuming steady-state conditions, no pollutant loss through conservation of mass, no atmospheric chemical reactions, etc.).

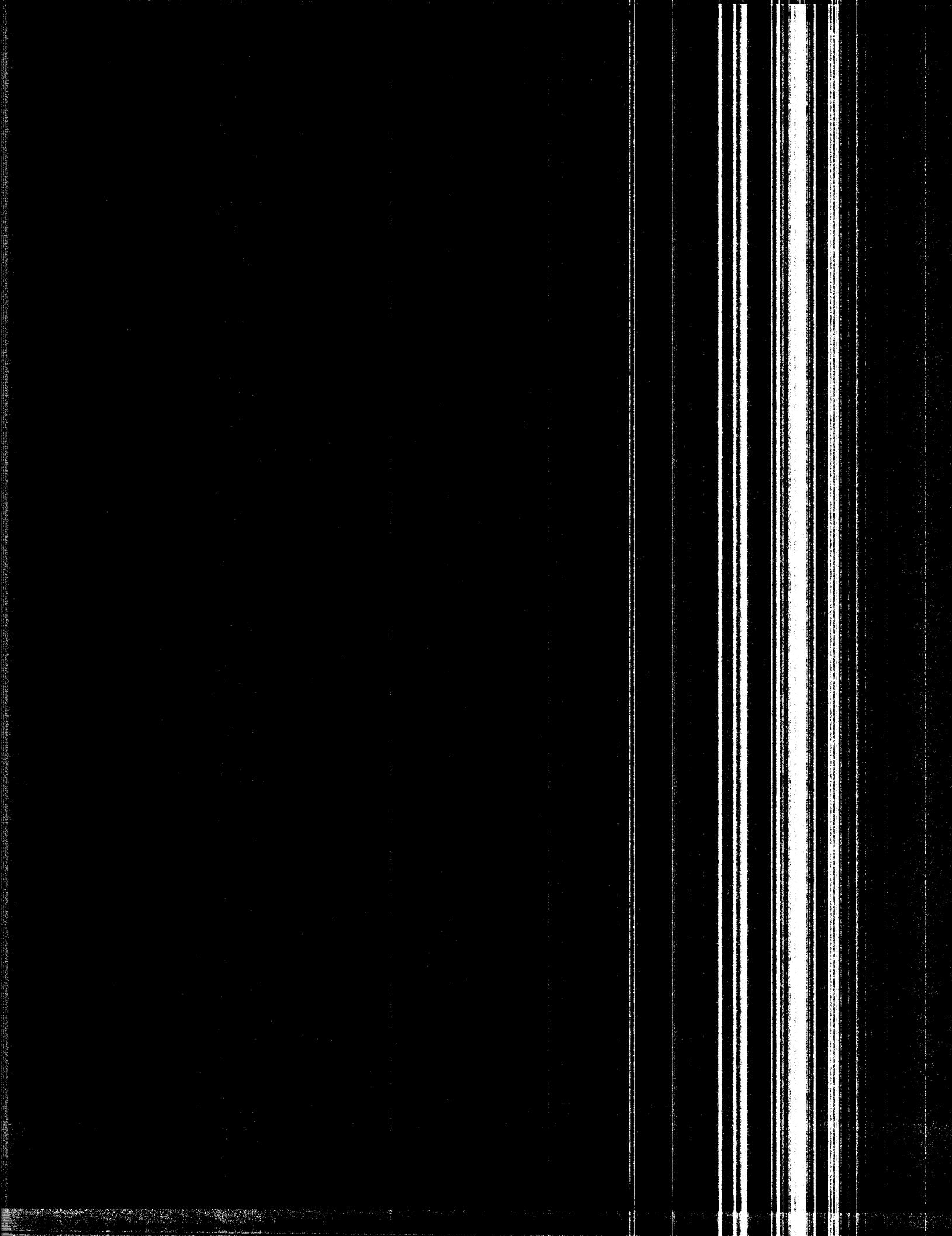
Windrose Information
Riverside Energy Resource Center

Surface Station: Riverside, CA
Surface Station #: 54139
Surface Station Year: 1981



Construction Air Dispersion Modeling Log
Riverside Energy Resource Center

Run No.	Run Type	Comments:
<i>Construction Emissions AQIA:</i>		
RIVERSIDECEC04	AQIA Run	Construction Emissions - PM Only Combustion PM and Fugitive PM Emission Sources Both Area and Volume Sources 24-Hour Only
RIVERSIDECEC05	AQIA Run	Construction Emissions - NOx Only Combustion Emission Sources Volume Sources 1-Hour and Annual Only
RIVERSIDECEC06	AQIA Run	Construction Emissions - CO Only Combustion Emission Sources Volume Sources 1-Hour and 8-Hour Only
RIVERSIDECEC07	AQIA Run	Construction Emissions - SOx Only Combustion Emission Sources Volume Sources 1-Hour, 3-Hour, and 24-Hour Only



1 ISCST3 - (DATED 02035)

ISCST3X PC (32 BIT) VERSION 4.0.0
(C) COPYRIGHT 1991-2002, Trinity Consultants

Run Began on 3/30/2004 at 15:25:39

** BREEZE ISC GIS Pro v4.0.7 - C:\BREEZE\RiversideCEC04v.dat
** Trinity Consultants

CO STARTING Riverside ERC
CO TITLEONE
CO TITLETWO CEC Modeling Run #04 (PM Construction Emissions)
CO MODEOPT CONC URBAN NOCALM HE>ZI
CO AVERTIME 24 ANNUAL
CO POLLUTID OTHER
CO TERRHGT5 ELEV
CO RUNORNOT RUN
CO FINISHED

SO STARTING METERS
SO ELEVUNIT
SO LOCATION SRC1 VOLUME 458278.2 3757941.3 220.98
** SRCDESCR Volume Source #1
SO LOCATION SRC2 VOLUME 458311.8 3758135.0 220.98
** SRCDESCR Volume Source #2
SO LOCATION SRC3 VOLUME 458293.2 3757874.3 220.98
** SRCDESCR Volume Source #3
SO LOCATION SRC9 AREAPOLY 458199.2 3757835.3 220.98
** SRCDESCR Area Source #1
SO LOCATION SRC4 VOLUME 458225.1 3757873.1 226
** SRCDESCR Volume Source #4
SO LOCATION SRC5 VOLUME 458267.0 3757973.0 220.98
** SRCDESCR Volume Source #5
SO LOCATION SRC6 VOLUME 458282.0 3758080.0 220.98
** SRCDESCR Volume Source #6
SO LOCATION SRC7 VOLUME 458305.3 3757903.5 220.98
** SRCDESCR Volume Source #7
SO LOCATION SRC8 VOLUME 458241.3 3757903.5 220.98
** SRCDESCR Volume Source #8
SO SRCPARAM SRC1 1.532134E-02 6 25.1 2.8
SO SRCPARAM SRC2 2.451919E-02 6 15.3 2.8
SO SRCPARAM SRC3 1.225960E-02 6 16.2 2.8
SO SRCPARAM SRC9 8.730000E-09 0.1 5 0
SO AREAVERT SRC9 458199.2 3757835.3 458000.4 3758064.2
SO AREAVERT SRC9 458343.7 3758167.1 458344.8 3757834.8
SO SRCPARAM SRC4 9.197846E-03 6 14.5 2.8
SO SRCPARAM SRC5 4.860999E-02 2 26 1.9
SO SRCPARAM SRC6 7.658152E-02 2 26 1.9
SO SRCPARAM SRC7 5.254112E-03 2 25.5 1.9
SO SRCPARAM SRC8 5.254112E-03 2 25.5 1.9

*PM2.5 Construction Emissions
Run*

*** ISCST3 - VERSION 02035 *** *** Riverside ERC
 *** CEC Modeling Run #04 (PM Construction Emissions)

**MODELOPTs:
 CONC

 URBAN ELEV

 *** THE MAXIMUM 10 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
 INCLUDING SOURCE(S): SRC1 , SRC2 , SRC3 , SRC9 , SRC4 , SRC5 , SRC6 ,

 NOCALM

 *** CONC OF OTHER IN MICROGRAMS/M**3

RANK	CONC	(YYMMDDHH) AT	RECEPTOR (XR, YR) OF TYPE	RANK	CONC	(YYMMDDHH) AT	RECEPTOR (XR, YR) OF TYPE
-	-	-	-	-	-	-	-
1.	✓16.97202 (81042424) AT (458313.91, 3758175.75) DC	6.	12.64643 (81022424) AT (458283.91, 3758175.75) DC	-	-	-	-
2.	13.95778 (81122324) AT (458313.91, 3758175.75) DC	7.	12.52162 (81102124) AT (458360.00, 3758175.75) DC	-	-	-	-
3.	13.54735 (81030324) AT (458313.91, 3758175.75) DC	8.	12.40787 (81042424) AT (458343.91, 3758175.75) DC	-	-	-	-
4.	13.51725 (81102824) AT (458313.91, 3758175.75) DC	9.	11.94407 (81041024) AT (458360.00, 3758055.75) DC	-	-	-	-
5.	13.46529 (81022424) AT (458313.91, 3758175.75) DC	10.	11.86755 (81110324) AT (458218.97, 3758117.50) DC	-	-	-	-

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOIR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

1 *** ISCST3 - VERSION 02035 *** *** Riverside ERC
 *** CEC Modeling Run #04 (PM Construction Emissions)

*MODELOPTs:
 CONC

 URBAN ELEV

 NOCALM

 *** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

 *** CONC OF OTHER IN MICROGRAMS/M**3

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZFLAG) OF TYPE	NETWORK GRID-ID
-	-	-	-
ALL	1ST HIGHEST VALUE IS ✓2.33196 AT (458360.00, 3758115.75,	227.09, 0.00) DC NA	-
	2ND HIGHEST VALUE IS 2.25833 AT (458360.00, 3758085.75,	226.51, 0.00) DC NA	-
	3RD HIGHEST VALUE IS 2.12288 AT (458360.00, 3758055.75,	226.51, 0.00) DC NA	-
	4TH HIGHEST VALUE IS 1.96380 AT (458313.91, 3758175.75,	227.67, 0.00) DC NA	-
	5TH HIGHEST VALUE IS 1.91711 AT (458283.91, 3758175.75,	227.49, 0.00) DC NA	-
	6TH HIGHEST VALUE IS 1.90215 AT (458218.97, 3758117.50,	228.04, 0.00) DC NA	-
	7TH HIGHEST VALUE IS 1.87866 AT (458360.00, 3758145.75,	227.81, 0.00) DC NA	-
	8TH HIGHEST VALUE IS 1.85422 AT (458234.38, 3758143.25,	228.28, 0.00) DC NA	-
	9TH HIGHEST VALUE IS 1.84501 AT (458203.53, 3758091.75,	228.72, 0.00) DC NA	-
	10TH HIGHEST VALUE IS 1.81369 AT (458360.00, 3758025.75,	226.93, 0.00) DC NA	-

Construction Emissions

Nox Run

1 ISCST3 - (DATED 02035)

ISCST3X PC (32 BIT) VERSION 4.0.0
(C) COPYRIGHT 1991-2002, Trinity Consultants

Run Began on 3/30/2004 at 16:01:15

** BREEZE ISC GIS Pro v4.0.7 - C:\BREEZE\Riverside\CEC05.dat
** Trinity Consultants

```
CO STARTING          Riverside ERC
CO TITLEONE          CEC Modelling Run #05 (NOx Construction Emissions)
CO TITLETWO          NOCALM HE>ZI
CO MODELOPT          CONC URBAN
CO AVERTIME          1 ANNUAL
CO POLLUTID          OTHER
CO TERRHGTS          ELEV
CO RUNORNOT          RUN
CO FINISHED          FINISHED

SO STARTING          METERS
SO ELEVUNIT          METERS
SO LOCATION           SRC1 VOLUME 458278.2 3757941.3 220.98
** SRCDESCR          Volume Source #1
SO LOCATION           SRC2 VOLUME 458311.8 3758142.4 220.98
** SRCDESCR          Volume Source #2
SO LOCATION           SRC3 VOLUME 458293.2 3757874.3 220.98
** SRCDESCR          Volume Source #3
SO LOCATION           SRC4 VOLUME 458225.1 3757873.1 220.98
** SRCDESCR          Volume Source #4
SO SRCIPARAM          SRC1 2.368760E-01 6 25.1 2.8
SO SRCIPARAM          SRC2 3.805136E-01 6 15.3 2.8
SO SRCIPARAM          SRC3 1.902568E-01 6 16.2 2.8
SO SRCIPARAM          SRC4 1.423776E-01 6 14.5 2.8
SO EMISFACT           SRC1 SHRDOW 0.0 0.0 0.0 1.0 1.0 1.0
```

1 *** ISCST3 - VERSION 02035 *** *** Riverside ERC

*** MODELOPTS: *** CEC Modeling Run #05 (Nox Construction Emissions)

CONC URBAN ELEV

03/30/04
16:01:18
PAGE 297
HE>2I

NOCALM

*** THE MAXIMUM 10 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
INCLUDING SOURCE(S): SRC1 , SRC2 , SRC3 , SRC4 ,

** CONC OF OTHER IN MICROGRAMS/M**3

RANK	CONC	(YMMDDHH) AT	RECEPTOR (XR, YR) OF TYPE	RANK	CONC	(YMMDDHH) AT	RECEPTOR (XR, YR) OF TYPE
1.	1019.81396	(81110508) AT (458283.91, 3758175.75)	DC	6.	993.17792	(81110308) AT (458283.91, 3758175.75)	DC
2.	1012.06360	(81050707) AT (458283.91, 3758175.75)	DC	7.	974.04681	(81010808) AT (458283.91, 3758175.75)	DC
3.	1007.65491	(81020607) AT (458283.91, 3758175.75)	DC	8.	961.12347	(81100507) AT (458283.91, 3758175.75)	DC
4.	1006.51685	(81090907) AT (458283.91, 3758175.75)	DC	9.	955.07416	(81012207) AT (458283.91, 3758175.75)	DC
5.	1006.34204	(81032707) AT (458283.91, 3758175.75)	DC	10.	944.63617	(81122407) AT (458283.91, 3758175.75)	DC

*** RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR

DC = DISCCART

DP = DISCPOLR

BD = BOUNDARY

BD = BOUNDARY

*** Riverside ERC

*** CEC Modeling Run #05 (Nox Construction Emissions)

*** MODELOPTS:

CONC URBAN ELEV

NOCALM

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZFLAG) OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS 2ND HIGHEST VALUE IS 3RD HIGHEST VALUE IS 4TH HIGHEST VALUE IS 5TH HIGHEST VALUE IS 6TH HIGHEST VALUE IS 7TH HIGHEST VALUE IS 8TH HIGHEST VALUE IS 9TH HIGHEST VALUE IS 10TH HIGHEST VALUE IS	16.70348 AT (458360.00, 3758145.75, 14.36479 AT (458360.00, 3758115.75, 14.12903 AT (458283.91, 3758175.75, 13.08956 AT (458343.91, 3758175.75, 11.33790 AT (458376.00, 3758143.50, 10.20497 AT (458376.00, 3758113.50, 9.78952 AT (458188.09, 3757881.00, 9.77938 AT (458360.00, 3758175.75, 9.63751 AT (458316.00, 3758203.50, 8.83336 AT (458249.84, 3758169.00,	227.81, 227.09, 227.49, 227.12, 225.86, 225.70, 225.15, 226.55, 223.99, 226.69,

**

HE>I

**

Construction Emissions

1 ISCST3 - (DATED 02035)

ISCST3X PC (32 BIT) VERSION 4.0.0
(C) COPYRIGHT 1991-2002, Trinity Consultants

Run Begun on 3/30/2004 at 16:20:44

** BREEZE ISC GIS Pro v4.0.7 - C:\BREEZE\Riverside\CEC06.dat
** Trinity Consultants

CO STARTING
CO TITLEONE Riverside ERC
CO TITLETWO CEC Modeling Run #06 (CO Construction Emissions)
CO MODELOPT CONC URBAN NOCALM HEZI
CO AVERTIME 1 8
CO POLLUTID OTHER
CO TERRHGTS ELEV
CO RUNORNOT RUN
CO FINISHED

SO STARTING METERS
SO ELEVUNIT
SO LOCATION SRC1 VOLUME 458278.2 3757941.3 220.98
** SRCDESCR Volume Source #1
SO LOCATION SRC2 VOLUME 458311.8 3758142.4 220.98
** SRCDESCR Volume Source #2
SO LOCATION SRC3 VOLUME 458293.2 3757874.3 220.98
** SRCDESCR Volume Source #3
SO LOCATION SRC4 VOLUME 458225.1 3757873.1 220.98
** SRCDESCR Volume Source #4
SO SRCPARAM SRC1 1.19690E-01 6 25.1 2.8
SO SRCPARAM SRC2 1.915168E-01 6 15.3 2.8
SO SRCPARAM SRC3 9.575839E-02 6 16.2 2.8
SO SRCPARAM SRC4 7.181880E-02 6 14.5 2.8
SO EMISFACT SRC1 SHRDOW 0.0 0.0 0.0 0.0 1.0 1.0 1.0
1

CO Run

*** ISCSST3 - VERSION 02035 *** *** Riverside ERC
 *** CEC Modeling Run #06 (CO Construction Emissions) ***
 ***MODELOPTs:
 CONC

URBAN ELEV NOCALM

*** THE MAXIMUM 10 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): SRC1 , SRC2 , SRC3 , SRC4 ,

** CONC OF OTHER IN MICROGRAMS/M**3

RANK	CONC	(YMMDDHH) AT	RECEPTOR (XR, YR) OF TYPE	RANK	CONC	(YMMDDHH) AT	RECEPTOR (XR, YR) OF TYPE
-	-	-	-	-	-	-	-
1.	513.28412	(81110508) AT (458283.91, 3758175.75)	DC	6.	499.87769	(81110308) AT (458283.91, 3758175.75)	DC
2.	509.38397	(81050707) AT (458283.91, 3758175.75)	DC	7.	490.24878	(81010808) AT (458283.91, 3758175.75)	DC
3.	507.16415	(81020607) AT (458283.91, 3758175.75)	DC	8.	483.74921	(81100507) AT (458283.91, 3758175.75)	DC
4.	506.59256	(81090907) AT (458283.91, 3758175.75)	DC	9.	480.70517	(81012207) AT (458283.91, 3758175.75)	DC
5.	506.50461	(81032707) AT (458283.91, 3758175.75)	DC	10.	475.44608	(81122407) AT (458283.91, 3758175.75)	DC

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

1 *** ISCSST3 - VERSION 02035 *** *** Riverside ERC
 *** CEC Modeling Run #06 (CO Construction Emissions)
 ***MODELOPTs:
 CONC

URBAN ELEV NOCALM

*** THE MAXIMUM 10 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): SRC1 , SRC2 , SRC3 , SRC4 ,

** CONC OF OTHER IN MICROGRAMS/M**3

RANK	CONC	(YMMDDHH) AT	RECEPTOR (XR, YR) OF TYPE	RANK	CONC	(YMMDDHH) AT	RECEPTOR (XR, YR) OF TYPE
-	-	-	-	-	-	-	-
1.	128.96968	(81102716) AT (458343.91, 3758175.75)	DC	6.	102.47556	(81090908) AT (458283.91, 3758175.75)	DC
2.	123.39154	(81041016) AT (458360.00, 3758115.75)	DC	7.	101.10373	(81111316) AT (458360.00, 3758145.75)	DC
3.	118.84556	(81042416) AT (458343.91, 3758175.75)	DC	8.	100.95726	(81010916) AT (458283.91, 3758115.75)	DC
4.	103.97836	(81102716) AT (458360.00, 3758145.75)	DC	9.	100.44048	(81021116) AT (458360.00, 3758115.75)	DC
5.	102.74536	(81122308) AT (458343.91, 3758175.75)	DC	10.	100.30627	(81102716) AT (458360.00, 3758175.75)	DC

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR
 BD = BOUNDARY

ISCST3X PC (32 BIT) VERSION 4.0.0
(C) COPYRIGHT 1991-2002, Trinity Consultants

Run Began on 3/30/2004 at 16:28:19

** BREEZE ISC GIS Pro v4.0.7 - C:\BREEZE\Riverside\CEC07.dat
** Trinity Consultants

Construction Emissions
SOx Run

```
CO STARTING Riverside ERC
CO TITLEONE
CO TITLETWO CEC Modeling Run #07 (SOx Construction Emissions)
CO MODELOPT CONC URBAN NOCALM HE>ZI
CO AVERTIME 1 3 24
CO POLLUTID OTHER
CO TERRHGTS ELEV
CO RUNORNOT RUN
CO FINISHED

SO STARTING
SO ELEVUNIT METERS
SO LOCATION SRC1 VOLUME 458278.2 3757941.3 220.98
** SRCDESCR Volume Source #1
SO LOCATION SRC2 VOLUME 458311.8 3758142.4 220.98
** SRCDESCR Volume Source #2
SO LOCATION SRC3 VOLUME 458293.2 3757874.3 220.98
** SRCDESCR Volume Source #3
SO LOCATION SRC4 VOLUME 458225.1 3757873.1 220.98
** SRCDESCR Volume Source #4
SO SRCPARAM SRC1 2.519958E-04 6 25.1 2.8
SO SRCPARAM SRC2 3.779937E-04 6 15.3 2.8
SO SRCPARAM SRC3 2.519958E-04 6 16.2 2.8
SO SRCPARAM SRC4 1.251979E-04 6 14.5 2.8
SO EMISFACT SRC1 SHRDOW 0.0 0.0 0.0 0.0 1.0 1.0 1.0
```

MODELOPTS:

URBAN ELI
* JC

CONC

URBAN ELEV

NOCLAR

*** THE MAXIMUM 10 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): SRC1 , SRC2 , SRC3 , SRC4 ,

** CONC OF OTHER IN MICROGRAMS/M**3

RANK	CONC	(YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE	RANK	CONC	(YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE	RANK	CONC	(YYMMDDHH) AT	RECEPTOR (XR,YR) OF TYPE
1.	✓1.01307 (81110508)	AT (458283.91, 3758175.75)	DC	6.	0.98660 (81110308)	AT (458283.91, 3758175.75)	DC	1.	✓1.01307 (81110508)	AT (458283.91, 3758175.75)	DC
2.	1.00540 (81050707)	AT (458283.91, 3758175.75)	DC	7.	0.96760 (81010808)	AT (458283.91, 3758175.75)	DC	2.	1.00540 (81050707)	AT (458283.91, 3758175.75)	DC
3.	1.00098 (81020607)	AT (458283.91, 3758175.75)	DC	8.	0.95502 (81100507)	AT (458283.91, 3758175.75)	DC	3.	1.00098 (81020607)	AT (458283.91, 3758175.75)	DC
4.	0.99990 (81090907)	AT (458283.91, 3758175.75)	DC	9.	0.94905 (81012207)	AT (458283.91, 3758175.75)	DC	4.	0.99990 (81090907)	AT (458283.91, 3758175.75)	DC
5.	0.99973 (81032707)	AT (458283.91, 3758175.75)	DC	10.	0.93838 (81122407)	AT (458283.91, 3758175.75)	DC	5.	0.99973 (81032707)	AT (458283.91, 3758175.75)	DC

*** RECEPTOR TYPES:

GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
BD = BOUNDARY

ISCST3 - VERSION 02035 ***

MODELOPTS:
C

URBAN ELI

*

CONC (YYMMDDHH) A